

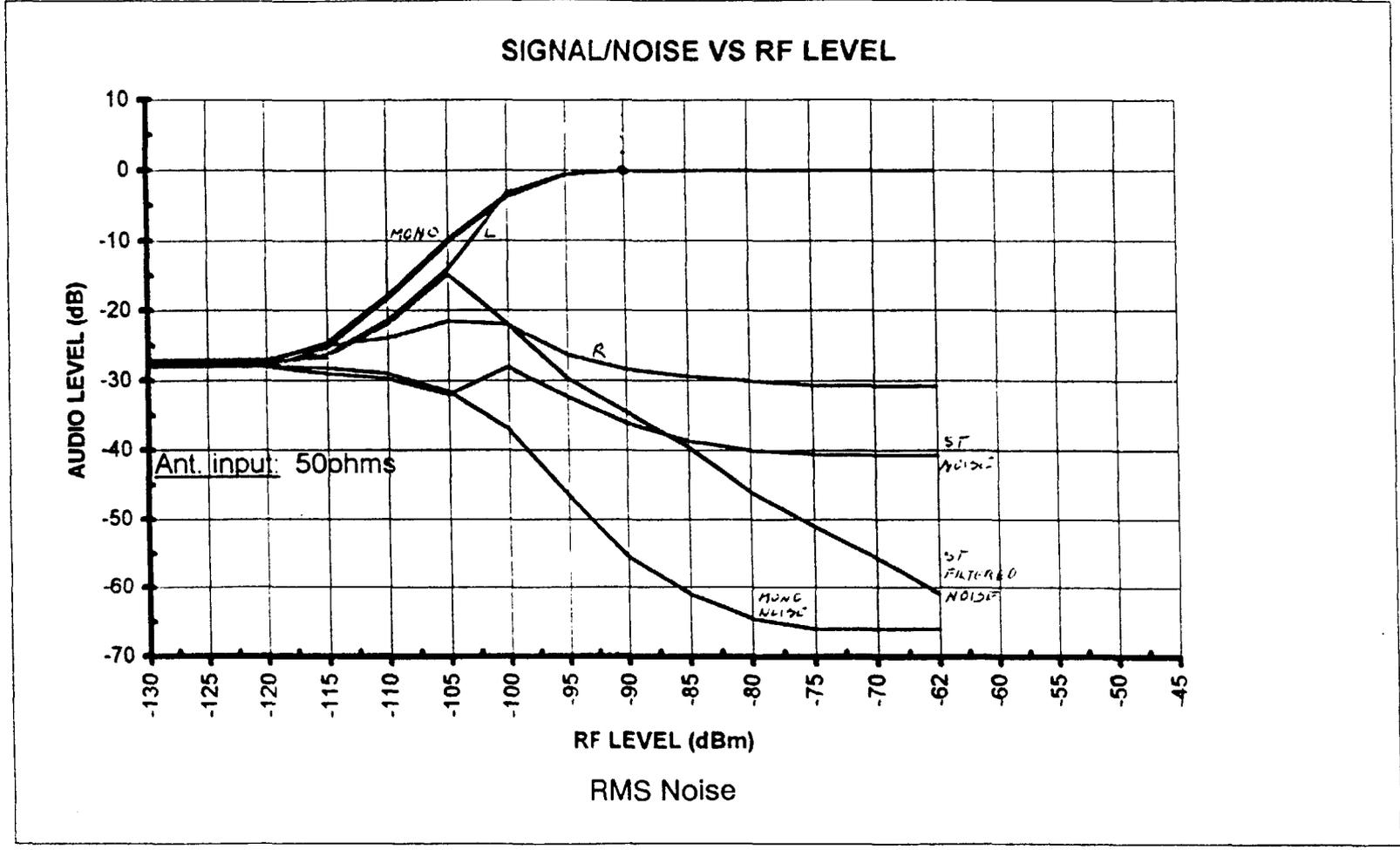
**CURVE DATA**

**SIGNAL, NOISE & SEPARATION VS RF LEVEL**

RF Level	mono (L)		Stereo (L)			RF Level	Separation L- > R	
	Signal	Noise	Signal	Filt. Noise	Noise		Left	Right
dBm	dB	dB	dB	dB	dB	dBm	dB	dB
130	27.8	-27.8	-28	-27	-28	-130	-27.5	27.5
-125	-27.7	-27.8	-28	-27	-28	-125	-27.5	-27.5
-120	-27.3	-27.9	-28	-27	-28	-120	-27.5	-27.5
-115	-24.6	-28.2	-25.4	-25	-29	-115	-26.2	-26.7
-110	-18	-29	-18.4	-24	-29.7	-110	-21.5	-22
-105	-9.8	-31.5	-10.2	-21.5	-32	-105	-14.1	-14.8
-100	-3.46	-37	-3.8	-22	-28	-100	-3.2	-22
-95	-0.6	-46.5	-0.6	-29.6	-32.3	-95	-0.5	-26.3
-90	0	-55.4	0	-34.4	-36	-90	0	-28.3
-85	0	-61	0	-39.5	-38.6	-85	0	-29.4
-80	0	-64.5	0	-46	-40	-80	0	-30
-75	0	-66	0	-51	-40.5	-75	0	-30.6
-70	0	-66	0	-55.7	-40.7	-70	0	-30.7
-62	0	-66	0	-61	-40.7	-62	0	-30.8
-57						-57		

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Receiver #3

**Panasonic Adjacent Channel Characteristics**

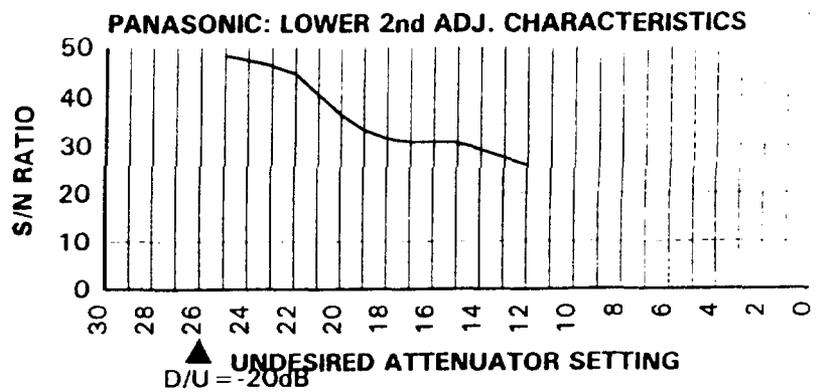
Lower second adj. channel 93.7mhz

Note:

- The results here represent a characteristic receiver input signature based on ramping the undesired signal up in 1dB increments and recording the signal to noise ratio.
- The measurements are made using a 15khz low pass and CCIR filters with quasi-peak detection
- The interfering signal is modulated with clipped pink noise
- SCA's (group B) are employed on both the desired and the undesired signals.

UNDES. ATTEN.	RADIO S/N (dB)
40	
39	
38	
37	
36	
35	
34	
33	
32	
31	
30	
29	
28	
27	
26	
25	48.3
24	47.3
23	46.2
22	44.6
21	40.6
20	36.5
19	33.2
18	31.4
17	30.8
16	30.8
15	30.6
14	29.2
13	27.5
12	25.8
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	
0	

D/U = -20dB



**Panasonic Portable Radio Adjacent Channel Characteristics**

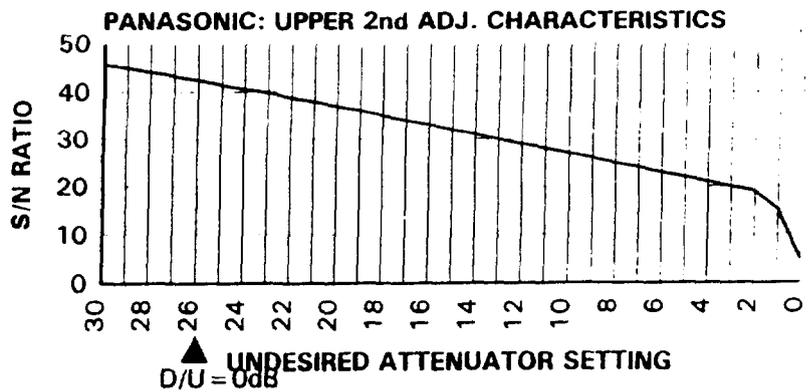
Upper second adj. channel 94.5mhz

Note:

- The results here represent a characteristic receiver input signature based on ramping the undesired signal up in 1dB increments and recording the signal to noise ratio.
- The measurements are made using a 15khz low pass and CCIR filters with quasi-peak detection
- The interfering signal is modulated with clipped pink noise
- SCA's (group B) are employed on both the desired and the undesired signals.

UNDES. ATTEN.	RADIO S/N (dB)
40	47.9
39	49.7
38	49.5
37	48.7
36	48.8
35	47.5
34	48
33	47.5
32	46.8
31	46.1
30	45.6
29	45
28	44.1
27	43.3
26	42.5
25	41.4
24	40.6
23	39.8
22	38.8
21	38
20	37
19	36.1
18	35
17	34
16	33
15	32
14	31
13	30
12	29
11	28
10	27
9	26
8	25
7	24
6	23
5	22
4	21
3	20
2	19
1	15
0	5

D/U = 0dB



**Appendix D**

**Receiver Test Data**

## Laboratory Receiver #4

FM -> FM Laboratory Measurements for the Pioneer Model SX-201

Type: Home Hi-Fi

Measurements were made at a moderate signal level of -62 dBm.

The signal to noise ratio was set at 45 dB and this measurement was made using a 15kHz low pass and a CCIR filter with quasi-peak detection.

### Test Results:

Co-Channel	D/U	44.18 dB
Lower First Adjacent	D/U	31.87 dB
Upper First Adjacent	D/U	21.22 dB
Lower Second Adjacent	D/U	-15.16 dB
Upper Second Adjacent	D/U	-14.92 dB

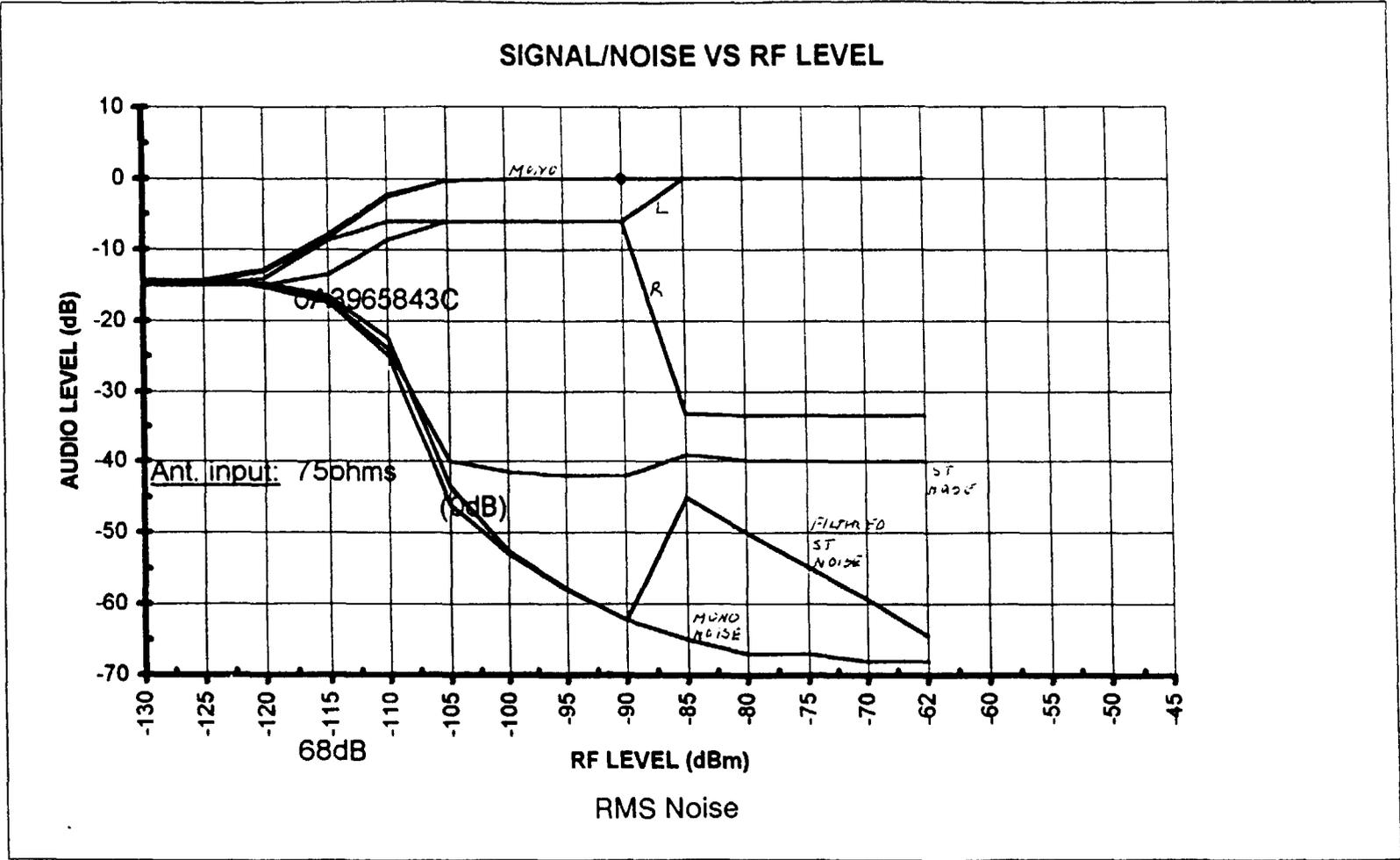
**CURVE DATA**

**SIGNAL, NOISE & SEPARATION VS RF LEVEL**

RF Level	mono (L)		Stereo (L)			RF Level	Separation L->R	
	Signal	Noise	Signal	Filt. Noise	Noise		Left	Right
dBm	dB	dB	dB	dB	dB	dBm	dB	dB
-130	-14.3	-14.3	-14.8	-14.5	-14.8	-130	-15	-15
-125	-14.3	-14.3	-14.8	-14.5	-14.8	-125	-15	-15
-120	-12.8	-15.3	-13	-14.7	-15	-120	-15	-14
-115	-7.8	-17.5	-8.3	-16.5	-17	-115	-13.5	-8.7
-110	-2.2	-25	-2.5	-22.5	-24	-110	-8.6	-6
-105	-0.2	-46	-0.23	-43.5	-40	-105	-6	-6
-100	0	-53	0	-52.6	-41.5	-100	-6	-6
-95	0	-58	0	-57.9	-42	-95	6	-6
-90	0	-62.3	0	-62.3	-42	-90	6	6
-85	0	-65	0	-45	-39	-85	0	-33.1
-80	0	-67	0	-50	-39.8	-80	0	-33.4
-75	0	-67	0	-54.8	-40	-75	0	-33.4
-70	0	-68	0	-59.3	-40	-70	0	-33.4
-62	0	-68	0	-64.5	-40	-62	0	-33.4
-57						-57		

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Receiver #4

**Pioneer SX201 Adjacent Channel Characteristics**

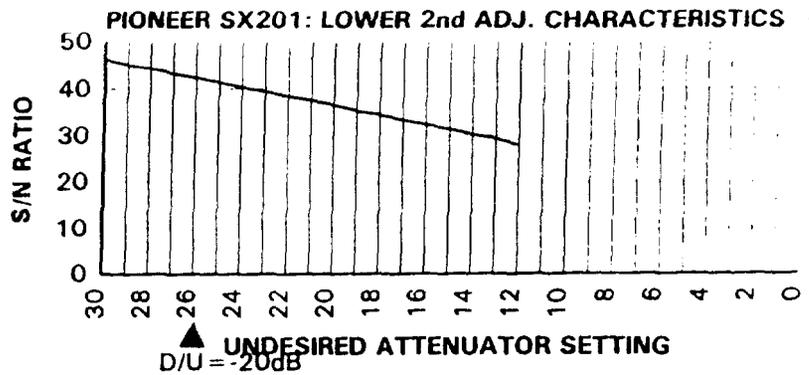
Lower second adj. channel 93.7mhz

Note:

- The results here represent a characteristic receiver input signature based on ramping the undesired signal up in 1dB increments and recording the signal to noise ratio.
- The measurements are made using a 15khz low pass and CCIR filters with quasi-peak detection
- The interfering signal is modulated with clipped pink noise
- SCA's (group B) are employed on both the desired and the undesired signals.

UNDES. ATTEN.	RADIO S/N (dB)
40	
39	
38	
37	
36	
35	49.9
34	49.2
33	48.5
32	47.8
31	47
30	46.2
29	45
28	44.3
27	43.3
26	42.3
25	41.5
24	40.4
23	39.4
22	38.5
21	37.5
20	36.6
19	35.3
18	34.5
17	33.4
16	32.3
15	31.4
14	30.2
13	29.3
12	27.9
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	
0	

D/U = -20dB



**PIONEER SX-201 Adjacent Channel Characteristics**

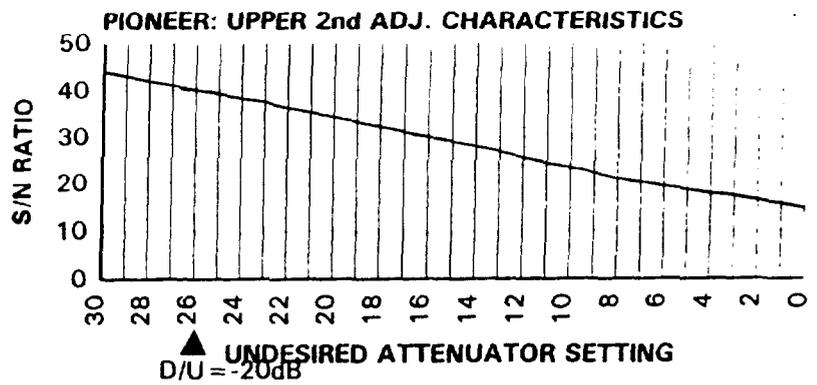
Upper second adj. channel 94.5mhz

Note:

- The results here represent a characteristic receiver input signature based on ramping the undesired signal up in 1dB increments and recording the signal to noise ratio.
- The measurements are made using a 15kHz low pass and CCIR filters with quasi-peak detection
- The interfering signal is modulated with clipped pink noise
- SCA's (group B) are employed on both the desired and the undesired signals.

UNDES. ATTEN.	RADIO S/N (dB)
40	
39	
38	
37	
36	
35	47.5
34	46.9
33	46.1
32	45.3
31	44.6
30	44
29	43
28	42
27	41
26	40.1
25	39.3
24	38.2
23	37.5
22	36.3
21	35.4
20	34.3
19	33.3
18	32.3
17	31.1
16	30
15	29
14	28
13	26.8
12	25.5
11	24.3
10	23.3
9	22.2
8	20.9
7	20.2
6	19.3
5	18.6
4	17.8
3	17.3
2	16.3
1	15.6
0	14.6

D/U = -20dB



**Appendix E**

**Receiver Test Data**

## Laboratory Receiver #5

FM -> FM Laboratory Measurements for the Ford Model F4XF-19B132-CB

Type: Auto

Measurements were made at a moderate signal level of -62 dBm.

The signal to noise ratio was set at 45 dB and this measurement was made using a 15kHz low pass and a CCIR filter with quasi-peak detection. For the second adjacent tests 45 dB S/N was not attainable on the test bed and 48 dB was used.

### Test Results:

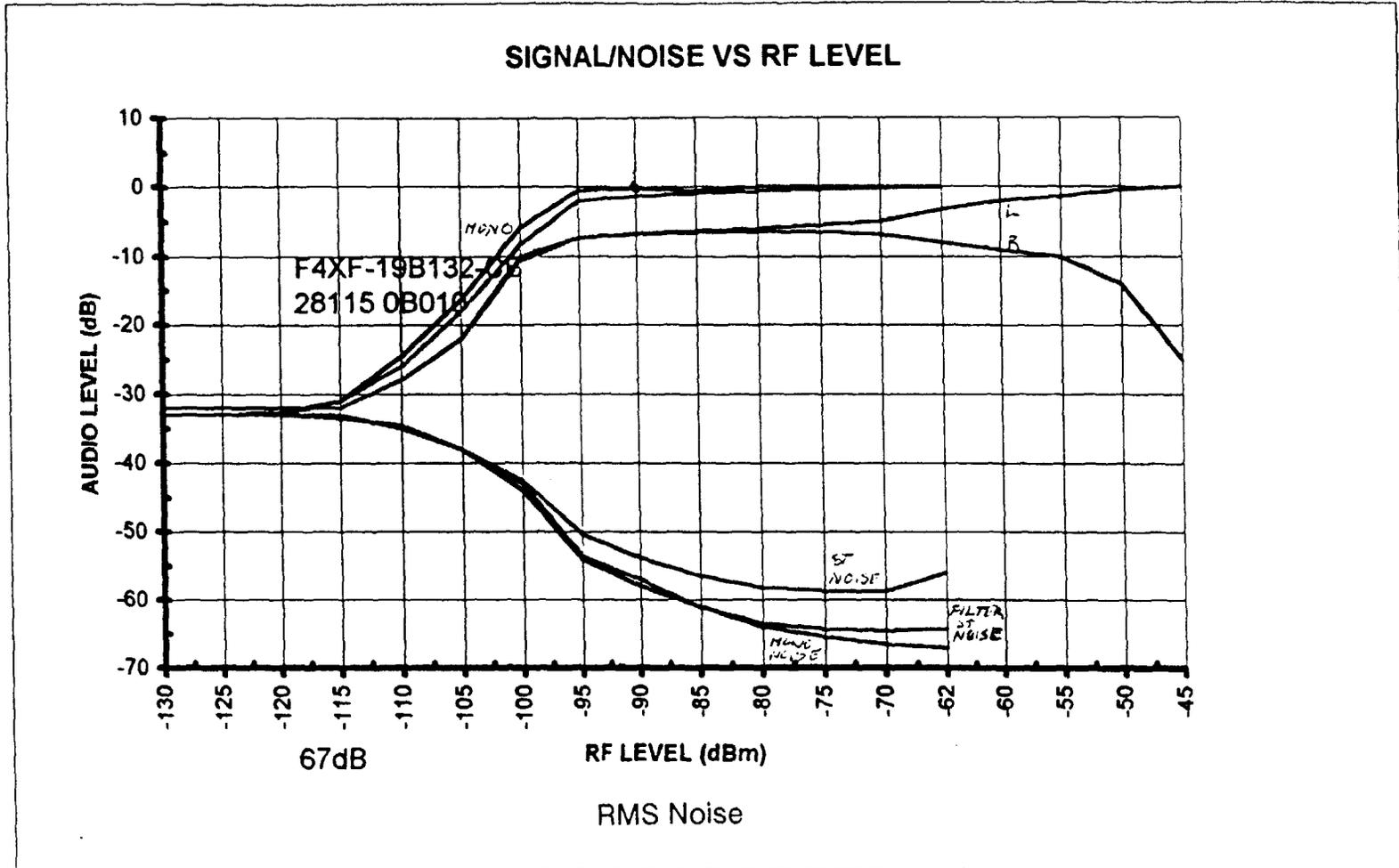
Co-Channel	D/U	35.22 dB
Lower First Adjacent	D/U	-6.18 dB
Upper First Adjacent	D/U	-6.12 dB
Lower Second Adjacent	D/U	-44.43 dB
Upper Second Adjacent	D/U	-46.18 dB

- Audio test frequency = 1KHZ
- RF levels represent power into the dummy antenna

**SIGNAL, NOISE & SEPARATION VS RF LEVEL**

RF Level	mono (L)		Stereo (L)			RF Level	Separation L->R	
	Signal	Noise	Signal	Filt. Noise	Noise		Left	Right
dBm	dB	dB	dB	dB	dB	dBm	dB	dB
-130	-33	-33	-33	-33	-33	-130	-32	-32
-125	-33	-33	-33	-33	-33	-125	-32	-32
-120	-32.6	-33	-33	-33	-33	-120	-32	-32
-115	31	-33.5	-31	-33.5	-33	-115	-32	-32
-110	-26	-34.5	-24.5	-34.5	-35	-110	-28	-28
-105	-18	-38	-16.3	-38	-38	-105	-22	-22
-100	-8.3	-44	-5.8	-43	-42.5	-100	-10.7	-10
-95	-2	-54	-0.51	-53.5	-50.3	-95	-7.27	-7.4
-90	-1.34	-58	-0.24	-57	-53.8	-90	-6.73	-6.8
-85	-0.94	-61	-0.52	-61.1	-56.5	-85	-6.3	-6.6
-80	-0.62	-64	0	-63.5	-58.2	-80	-6	-6.4
-75	-0.36	-65.5	0	-64.3	-58.7	-75	-5.5	-6.5
-70	-0.17	-66.5	0	-64.6	-58.8	-70	-4.9	-6.8
-62	0	-67	0	-64.2	-56	-62	-3.28	-8
-55						-55	-1.35	-10
-50						-50	-0.44	-14
-45						-45	0	-25

# EIA Digital Audio Radio Test Laboratory



Receiver #5